- 1 1. A method comprising:
- displaying an image using a second order non-
- 3 linear electro-optic effect.
- 1 2. The method of claim 1 including forming an imager
- 2 for a high end large screen rear projection high definition
- 3 television.
- 1 3. The method of claim 1 including forming an imager
- 2 for a front-projection system.
- 1 4. The method of claim 1 including forming a second
- 2 order non-linear electro-optic film over a substrate.
- 1 5. The method of claim 4 including forming
- 2 transistors in said substrate.
- 1 6. The method of claim 5 wherein forming transistors
- 2 includes forming memory transistors and drive transistors
- 3 in said substrate.
- 1 7. The method of claim 2 including forming a thermal
- 2 interface material over a support structure and forming
- 3 said substrate over said thermal interface material.

- 1 8. The method of claim 7 including forming said film
- 2 of a second order electro-optic material having a switching
- 3 speed on the order of at least one gigaHertz.
- 1 9. The method of claim 8 including forming said film
- 2 of an electro-optic material having a switching speed of
- 3 greater than 100 gigaHertz.
- 1 10. The method of claim 9 including forming said film
- 2 of a stilbene-based organic molecular salt.
- 1 11. The method of claim 10 including forming said
- 2 film of 4'-dimethylamino-N-methyl-4-stilbazolium tosylate.
- 1 12. An imager comprising:
- a second order non-linear electro-optic film.
- 1 13. The imager of claim 12 including a support
- 2 structure covered by a thermal interface material and a
- 3 substrate over said support structure.
- 1 14. The imager of claim 13 including transistors
- 2 formed in said substrate.
- 1 15. The imager of claim 14 including drive
- 2 transistors and memory transistors in said substrate.

- 1 16. The imager of claim 12 wherein said film has a
- 2 switching speed of at least one gigaHertz.
- 1 17. The imager of claim 16 wherein said film has a
- 2 switching speed of greater than 100 gigaHertz.
- 1 18. The imager of claim 12 wherein said film includes
- 2 a stilbene-based organic molecular salt.
- 1 19. The imager of claim 18 wherein said film includes
- 2 4'-dimethylamino-N-methyl-4-stilbazolium tosylate.
- 1 20. A system comprising:
- a processor; and
- an imager coupled to said processor, said imager
- 4 including a second order non-linear electro-optic effect
- 5 film.
- 1 21. The system of claim 20 including a support
- 2 structure covered by a thermal interface material and a
- 3 substrate over said support structure.
- 1 22. The system of claim 21 including transistors
- 2 formed in said substrate.

- 1 23. The system of claim 22 including drive
- 2 transistors and memory transistors in said substrate.
- 1 24. The system of claim 20 wherein said film has a
- 2 switching speed of at least one gigaHertz.
- 1 25. The system of claim 24 wherein said film has a
- 2 switching speed of greater than 100 gigaHertz.
- 1 26. The system of claim 20 wherein said film includes
- 2 a stilbene-based organic molecular salt.
- 1 27. The system of claim 26 wherein said film includes
- 2 4'-dimethylamino-N-methyl-4-stilbazolium tosylate.
- 1 28. The system of claim 19 wherein in said system
- 2 includes a front projection display system.